

1972 VOL. 50

**ANNALES MEDICINAE
EXPERIMENTALIS ET BIOLOGIAE
FENNIAE**

**EDITORES: K. O. RENKONEN
Y. COLLAN**

**REDACTORES: O. ERÄNKÖ
K. HARTIALA
E. MUSTAKALLIO
M. PAASONEN
U. UOTILA
A. I. VIRTANEN**



HELSINKI



INDEX

VOL. 50

FASC. 1

M. Saari (Helsinki)		
	VASCULATURE OF THE PIG IRIS	1
M. Saari (Helsinki)		
	FINE STRUCTURE OF THE MICROCIRCULATORY BED OF THE PIG IRIS	12
T. Ruutu (Helsinki)		
	EFFECT OF PHENOTHIAZINES AND RELATED COMPOUNDS ON PHAGOCYTOSIS AND BACTERIAL KILLING BY HUMAN NEUTROPHILIC LEUKOCYTES	24
T. Ruutu (Helsinki)		
	FACTORS AFFECTING THE INHIBITION OF PHAGOCYTOSIS BY CHLORPROMAZINE	37
T. Ruutu and Y. Collan (Helsinki)		
	SHORT-TERM EFFECT OF CHLORPROMAZINE ON HUMAN LEUKOCYTES AND ERYTHROCYTES	42
T. Ruutu (Helsinki)		
	EFFECT OF ANTIARRHYTHMIC AND DIURETIC AGENTS ON PHAGOCYTOSIS AND BACTERIAL KILLING BY HUMAN NEU- TROPHILIC LEUKOCYTES	49

FASC. 2

M. Haataja, L. Nieminen, L. Kangas, M. Möttönen and K. Bjondahl (Turku)		
	EFFECT OF SPIRONOLACTONE ON PENTOBARBITAL ANAES- THESIA, DIAZEPAM METABOLISM AND TOXICITY OF SPIRO- NOLACTONE AND FUROSEMIDE	57
P. Nikki, P. Männistö and H. Vapaatalo (Helsinki)		
	INFLUENCE OF HALOTHANE ANAESTHESIA ON BLOOD GLUCOSE, PLASMA FREE FATTY ACIDS AND THERMOREGU- LATION IN RATS	61

P. Ylitalo (Helsinki)	
EFFECT OF ANAESTHETICS WITH EXCITATORY PROPERTIES, HYPOXIA, HYPERCAPNIA AND HYPOGLYCAEMIA ON TOXIC- ITY OF 5HT IN RATS	68
R. Antila and P. Pohto (Helsinki)	
INHIBITION OF HISTAMINE RELEASE FROM RAT MAST CELLS BY FLUORIDE IONS IN VIVO	78
P. Ertama and P. Ylitalo (Helsinki)	
TOXICITY OF SOME VASOACTIVE DRUGS AND THEIR EFFECT ON RETINAL VESSELS IN ANAESTHETIZED RATS	82
M. Vuoristo and M. J. Mattila (Helsinki)	
EFFECT OF MORPHINE AND CODEINE ON TISSUE RESPONSES AND KINETICS OF LABELLED CHOLINE AND ACETYLCHOLINE IN NORMAL AND RESERPINIZED GUINEA-PIG ILEUM	88
R. Visakorpi and T. U. Kosunen (Helsinki)	
THE EFFECT OF WHOLE BODY X-IRRADIATION ON EXPERI- MENTAL ALLERGIC ENCEPHALOMYELITIS IN THE RAT	95
FASC. 3	
A. Forssén (Helsinki)	
INORGANIC ELEMENTS IN THE HUMAN BODY	
I. Occurrence of Ba, Br, Ca, Cd, Cs, Cu, K, Mn, Ni, Sn, Sr, Y and Zn in the human body	99
FASC. 4	
R. Penttinen (Turku)	
CARBOHYDRATE COMPONENTS OF FRACTURE CALLUS IN RATS	163
J. A. Vilpo (Helsinki)	
PROLIFERATION, SURVIVAL AND MALIGNANCY OF CHLO- ROLEUKAEMIA CELLS GROWN IN DIFFUSION CHAMBERS IN VIVO	168
A. Alha and T. Korte (Helsinki)	
GAS CHROMATOGRAPHIC DETERMINATION OF DRUGS IN POST-MORTEM BLOOD	175
L. Ahtee, I. Kääriäinen and M. K. Paasonen (Helsinki)	
EFFECT OF NALORPHINE AND ANTIPARKINSONIAN DRUGS ON METHADONE-INDUCED RIGIDITY; RELATION TO HOMO- VANILLIC ACID CONTENT OF NUCLEUS CAUDATUS	180
P. Ylitalo, P. Ertama and S. Lahovaara (Helsinki)	
ANAESTHESIA AND TOXICITY OF ANGIOTENSIN AND 5-HYD- ROXYTRYPTAMINE IN RATS	186

P. Ylitalo (Helsinki)	
RISE IN PLASMA ANGIOTENSIN II AND OF BLOOD PRESSURE INDUCED BY 5-HYDROXYTRYPTAMINE IN RATS	191
P. Ylitalo (Helsinki)	
STUDIES ON THE ROLE OF THE CENTRAL AND AUTONOMIC NERVOUS SYSTEMS IN THE TOXICITY OF 5HT IN ANAESTHETIZED RATS	195
R. Mansner (Helsinki)	
RELATION BETWEEN SOME CENTRAL EFFECTS OF NICOTINE AND ITS BRAIN LEVELS IN THE MOUSE	205
INDEX 1972	

AUTHOR INDEX

Ahtee L	180	Mattila MJ	88
Alha A	175	Männistö P	61
Antila R	78	Möttönen M	57
Bjondahl K	57	Nieminen L	57
Collan Y	42	Nikki P	61
Ertama P	82, 186	Paasonen MK	180
Forssén A	99	Penttinen R	163
Haataja M	57	Ruutu T	24, 37, 42, 49
Kangas L	57	Saari M	1, 12
Korte T	175	Vapaatalo H	61
Kosunen TU	95	Vilpo JA	168
Kääriäinen I	180	Visakorpi R	95
Lahovaara S	186	Vuoristo M	88
Mansner R	205	Ylitalo P	68, 82, 186, 191, 195